

08/09/2006

Page 1

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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 FEB 27 New STN AnaVist pricing effective March 1, 2006  
NEWS 4 MAY 10 CA/Capplus enhanced with 1900-1906 U.S. patent records  
NEWS 5 MAY 11 KOREAPAT updates resume  
NEWS 6 MAY 19 Derwent World Patents Index to be reloaded and enhanced  
NEWS 7 MAY 30 IPC 8 Rolled-up Core codes added to CA/Capplus and  
USPATFULL/USPAT2  
NEWS 8 MAY 30 The F-Term thesaurus is now available in CA/Capplus  
NEWS 9 JUN 02 The first reclassification of IPC codes now complete in  
INPADOC  
NEWS 10 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and  
and display fields  
NEWS 11 JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL  
NEWS 12 JUL 11 CHEMSAFE reloaded and enhanced  
NEWS 13 JUL 14 FSTA enhanced with Japanese patents  
NEWS 14 JUL 19 Coverage of Research Disclosure reinstated in DWPI  
NEWS 15 AUG 09 INSPEC enhanced with 1898-1968 archive  
NEWS 16 AUG 28 ADISCTI Reloaded and Enhanced  
NEWS 17 AUG 30 CA(SM)/Capplus(SM) Austrian patent law changes  
  
NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
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NEWS X25 X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that  
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FILE 'HOME' ENTERED AT 10:42:25 ON 08 SEP 2006

10658648

=> file registry  
COST IN U.S. DOLLARS

| SINCE FILE<br>ENTRY | TOTAL<br>SESSION |
|---------------------|------------------|
| 0.21                | 0.21             |

FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 7 SEP 2006 HIGHEST RN 906063-52-3  
DICTIONARY FILE UPDATES: 7 SEP 2006 HIGHEST RN 906063-52-3

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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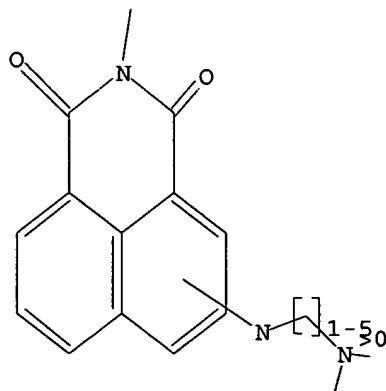
REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>  
Uploading C:\Program Files\Stnexp\Queries\10658648.str

L1 STRUCTURE UPLOADED

=> d l1  
L1 HAS NO ANSWERS  
L1 STR



G1 O,S,N

Structure attributes must be viewed using STN Express query preparation.

10658648

=> s l1

SAMPLE SEARCH INITIATED 10:43:02 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 171 TO ITERATE

100.0% PROCESSED 171 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 2636 TO 4204  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 ful

FULL SEARCH INITIATED 10:43:06 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 3285 TO ITERATE

100.0% PROCESSED 3285 ITERATIONS 2 ANSWERS  
SEARCH TIME: 00.00.01

L3 2 SEA SSS FUL L1

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST  | 166.94           | 167.15        |

FILE 'CAPLUS' ENTERED AT 10:43:10 ON 08 SEP 2006  
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FILE COVERS 1907 - 8 Sep 2006 VOL 145 ISS 12  
FILE LAST UPDATED: 7 Sep 2006 (20060907/ED)

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<http://www.cas.org/infopolicy.html>

=> s l3

L4 1 L3

=> d abs bib hitstr

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

10658648

AB A complexometric method for the rapid determination of BaSO<sub>4</sub> in Fe-containing materials (ore from Kremikovtsi, etc.) is proposed. The soluble compds. of Ba are eliminated when the sample is boiled in dilute HCl. The sample is fused with an oxidizing mixture (Na<sub>2</sub>CO<sub>3</sub>: baked MgO:KNO<sub>3</sub> = 3:2:1) at a temperature of 800-850°. The cake is treated with HCl (1:11) and in the resulting solution Ba is precipitated as the sulfate. The precipitate is dissolved in 0.1N Complexon III and the excess complexon is titrated with 0.1N BaCl<sub>2</sub>, using thymolphthalexon as indicator.

AN 1966:7469 CAPLUS  
 DN 64:7469  
 OREF 64:1352e-f

TI A rapid complexometric determination of barium sulfate in ores, concentrates, and half-products from Kremikovtsi

AU Petkova, L.  
 SO Godishnik Nauchnoizsled. Proektant. Inst. Rudodobiv Obogatyavane (1964), 3(3), 271-3  
 From: Abstr. Bulgar. Sci. Lit., Chem. 7(2), 15(1964).

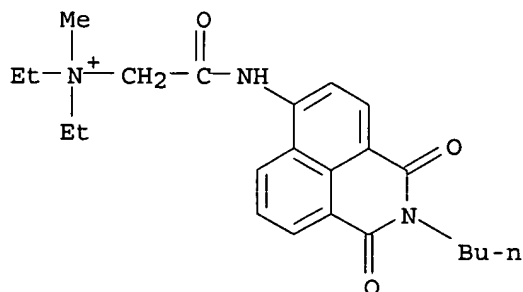
DT Journal  
 LA Bulgarian  
 IT 5082-57-5, Ammonium, [[(2-butyl-2,3-dihydro-1,3-dioxo-1H-benz[de]isoquinolin-6-yl)carbamoyl)methyl]diethylmethyl, methyl sulfate (preparation, fluorescence and ultraviolet spectra of)

RN 5082-57-5 CAPLUS  
 CN Ammonium, [[(2-butyl-2,3-dihydro-1,3-dioxo-1H-benz[de]isoquinolin-6-yl)carbamoyl)methyl]diethylmethyl-, methyl sulfate (8CI) (CA INDEX NAME)

CM 1

CRN 47614-71-1

CMF C23 H30 N3 O3



CM 2

CRN 21228-90-0

CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

=> FIL STNGUIDE

|  |            |         |
|--|------------|---------|
| COST IN U.S. DOLLARS                       | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| FULL ESTIMATED COST                        | 6.03       | 173.18  |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| CA SUBSCRIBER PRICE                        | -0.75      | -0.75   |

FILE 'STNGUIDE' ENTERED AT 10:44:34 ON 08 SEP 2006  
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Sep 1, 2006 (20060901/UP).

=> file registry

|  |            |         |
|--|------------|---------|
| COST IN U.S. DOLLARS                       | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| FULL ESTIMATED COST                        | 0.12       | 173.30  |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| CA SUBSCRIBER PRICE                        | 0.00       | -0.75   |

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<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10658648.str

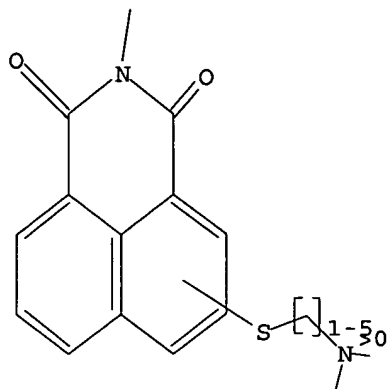
L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5 STR

10658648



G1 O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l5

SAMPLE SEARCH INITIATED 10:46:16 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 20 TO ITERATE

100.0% PROCESSED 20 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 132 TO 668

PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s l5 ful

FULL SEARCH INITIATED 10:46:23 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 294 TO ITERATE

100.0% PROCESSED 294 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L7 0 SEA SSS FUL L5

=>

Uploading C:\Program Files\Stnexp\Queries\10658648.str

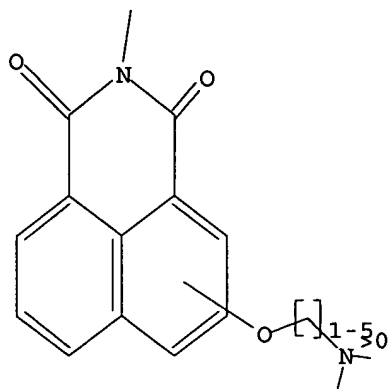
L8 STRUCTURE UPLOADED

=> d l8

L8 HAS NO ANSWERS

L8 STR

10658648



G1 O,S,N

Structure attributes must be viewed using STN Express query preparation.

=&gt; s l8

SAMPLE SEARCH INITIATED 10:47:28 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 104 TO ITERATE

100.0% PROCESSED 104 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 1469 TO 2691

PROJECTED ANSWERS: 0 TO 0

L9 0 SEA SSS SAM L8

=&gt; s l8 ful

FULL SEARCH INITIATED 10:47:34 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 2136 TO ITERATE

100.0% PROCESSED 2136 ITERATIONS

19 ANSWERS

SEARCH TIME: 00.00.01

L10 19 SEA SSS FUL L8

=&gt; file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

334.32

507.62

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-0.75

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FILE LAST UPDATED: 7 Sep 2006 (20060907/ED)

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<http://www.cas.org/infopolicy.html>

=> s l10

L11 6 L10

=> d abs bib hitstr 1-6

L11 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

AB Fluorescent monomers are described and claimed which are synthesized by reacting a substituted or non-substituted naphthalic anhydride with an amine and with a moiety containing a polymerizable group. Such monomers are useful for the preparation of tagged treatment polymers. Such tagged treatment polymers are useful as scale inhibitors in industrial water systems.

AN 2004:569555 CAPLUS

DN 141:76328

TI Fluorescent monomers and tagged treatment polymers containing same for use in industrial water systems

IN Morris, John D.; Moriarty, Barbara E.; Wei, Mingli; Murray, Patrick G.; Reddinger, Jerry L.

PA USA

SO U.S. Pat. Appl. Publ., 17 pp., Cont.-in-part of U.S. 6,645,428.  
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 3

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO.  | DATE     |
|------|----------------|------|----------|------------------|----------|
|      | -----          | ---- | -----    | -----            | -----    |
| PI   | US 2004135125  | A1   | 20040715 | US 2003-658715   | 20030909 |
|      | US 6645428     | B1   | 20031111 | US 2000-560881   | 20000427 |
|      | TW 570969      | B    | 20040111 | TW 2001-90109652 | 20010703 |
|      | ZA 2002007690  | A    | 20030925 | ZA 2002-7690     | 20020925 |
| PRAI | US 2000-560881 | A2   | 20000427 |                  |          |

IT 371239-15-5P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(fluorescent monomer; fluorescent monomers and tagged treatment polymers containing same for use in monitoring scale inhibition in industrial water systems)

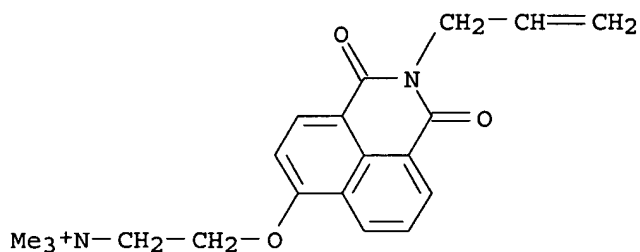
RN 371239-15-5 CAPLUS

CN Ethanaminium, 2-[[2,3-dihydro-1,3-dioxo-2-(2-propenyl)-1H-benz[de]isoquinolin-6-yl]oxy]-N,N,N-trimethyl-, methanesulfonate (9CI)  
(CA INDEX NAME)

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CRN 371239-14-4

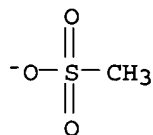
CMF C20 H23 N2 O3



CM 2

CRN 16053-58-0

CMF C H3 O3 S



L11 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

AB Fluorescent monomers are described and claimed which are synthesized by reacting a substituted or non-substituted naphthalic anhydride with an amine and with a moiety containing a polymerizable group. Such monomers are useful for the preparation of tagged treatment polymers. Such tagged treatment polymers are useful as scale inhibitors in industrial water systems.

AN 2004:569554 CAPLUS

DN 141:76327

TI Fluorescent monomers and tagged treatment polymers containing same for use in industrial water systems

IN Morris, John D.; Moriarty, Barbara E.; Wei, Mingli; Murray, Patrick G.; Reddinger, Jerry L.

PA USA

SO U.S. Pat. Appl. Publ., 16 pp., Cont.-in-part of U.S. 6,645,428.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 3

|      | PATENT NO.       | KIND | DATE     | APPLICATION NO.  | DATE     |
|------|------------------|------|----------|------------------|----------|
|      | -----            | ---- | -----    | -----            | -----    |
| PI   | US 2004135124    | A1   | 20040715 | US 2003-658648   | 20030909 |
|      | US 6645428       | B1   | 20031111 | US 2000-560881   | 20000427 |
|      | TW 570969        | B    | 20040111 | TW 2001-90109652 | 20010703 |
|      | ZA 2002007690    | A    | 20030925 | ZA 2002-7690     | 20020925 |
| PRAI | US 2000-560881   | A2   | 20000427 |                  |          |
| OS   | MARPAT 141:76327 |      |          |                  |          |

10658648

IT 371239-15-5P  
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (fluorescent monomer; fluorescent monomers and tagged treatment polymers containing same for use in monitoring scale inhibition in industrial water systems)

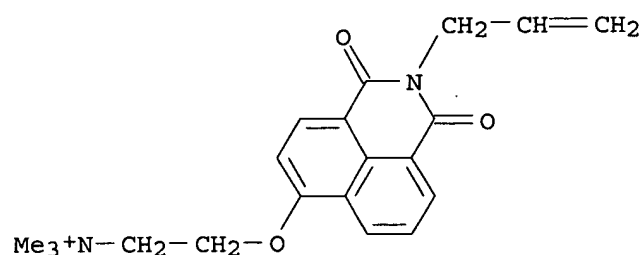
RN 371239-15-5 CAPLUS

CN Ethanaminium, 2-[[2,3-dihydro-1,3-dioxo-2-(2-propenyl)-1H-benz[de]isoquinolin-6-yl]oxy]-N,N,N-trimethyl-, methanesulfonate (9CI)  
 (CA INDEX NAME)

CM 1

CRN 371239-14-4

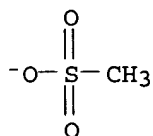
CMF C20 H23 N2 O3



CM 2

CRN 16053-58-0

CMF C H3 O3 S



L11 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

AB Fluorescent monomers are described and claimed which are synthesized by reacting a substituted or non-substituted naphthalic anhydride with an amine and with a moiety containing a polymerizable group. Such monomers are useful for the preparation of tagged treatment polymers. Such tagged treatment polymers are useful as scale inhibitors in industrial water systems. In many industrial water systems that employ polymers as water treatment agents it may be desirable to tag or mark such polymers to facilitate monitoring thereof.

AN 2001:798496 CAPLUS

DN 135:348686

TI Fluorescent monomers and tagged treatment polymers containing same for use in industrial water systems

IN Morris, John D.; Moriarty, Barbara E.; Wei, Mingli; Murray, Patrick Gerard; Reddinger, Jerry L.

PA Ondeo Nalco Company, USA

SO PCT Int. Appl., 93 pp.

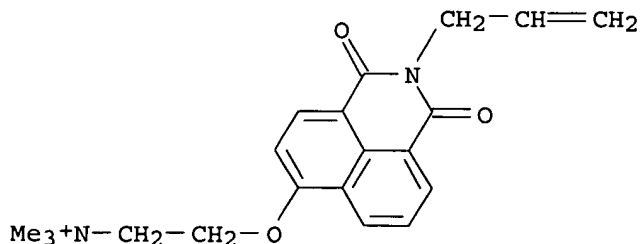
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 3

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO.  | DATE     |
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| PI   | WO 2001081654   | A1   | 20011101 | WO 2001-US13567  | 20010425 |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |      |          |                  |          |
|      | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  |      |          |                  |          |
|      | US 6645428  | B1   | 20031111 | US 2000-560881   | 20000427 |
|      | CA 2404311  | AA   | 20011101 | CA 2001-2404311  | 20010425 |
|      | AU 2001057335   | A5   | 20011107 | AU 2001-57335    | 20010425 |
|      | EP 1282732  | A1   | 20030212 | EP 2001-930837   | 20010425 |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR   |      |          |                  |          |
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|      | TW 570969   | B    | 20040111 | TW 2001-90109652 | 20010703 |
|      | ZA 2002007690   | A    | 20030925 | ZA 2002-7690     | 20020925 |
| PRAI | US 2000-560881  | A    | 20000427 |                  |          |
|      | WO 2001-US13567   | W    | 20010425 |                  |          |
| OS   | MARPAT 135:348686   |      |          |                  |          |
| IT   | 371239-15-5P  |      |          |                  |          |
|      | RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  |      |          |                  |          |
|      | (fluorescent monomer; fluorescent monomers and tagged treatment polymers containing same for use in monitoring scale inhibition in industrial water systems)  |      |          |                  |          |
| RN   | 371239-15-5 CAPLUS  |      |          |                  |          |
| CN   | Ethanaminium, 2-[[2,3-dihydro-1,3-dioxo-2-(2-propenyl)-1H-benz[de]isoquinolin-6-yl]oxy]-N,N,N-trimethyl-, methanesulfonate (9CI)  |      |          |                  |          |
|      | (CA INDEX NAME)   |      |          |                  |          |
| CM   | 1   |      |          |                  |          |
| CRN  | 371239-14-4   |      |          |                  |          |
| CMF  | C20 H23 N2 O3   |      |          |                  |          |



CM 2

|  |                  |               |
|--|------------------|---------------|
| COST IN U.S. DOLLARS                       | SINCE FILE ENTRY | TOTAL SESSION |
| FULL ESTIMATED COST                        | 32.50            | 540.12        |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE                        | -4.50            | -5.25         |

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DICTIONARY FILE UPDATES: 7 SEP 2006 HIGHEST RN 906063-52-3

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=>

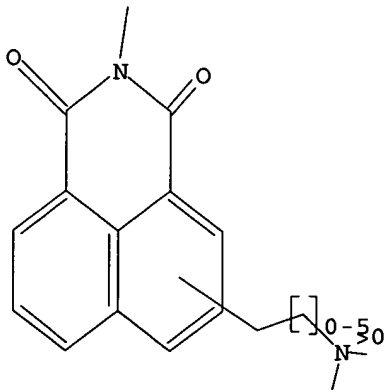
Uploading C:\Program Files\Stnexp\Queries\10658648.str

L12 STRUCTURE UPLOADED

=> d l12

L12 HAS NO ANSWERS

L12 STR



G1 O, S, N

10658648

Structure attributes must be viewed using STN Express query preparation.

=> s l12

SAMPLE SEARCH INITIATED 10:50:41 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 241 TO ITERATE

100.0% PROCESSED 241 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 3889 TO 5751

PROJECTED ANSWERS: 0 TO 0

L13 0 SEA SSS SAM L12

=> s l12 ful

FULL SEARCH INITIATED 10:50:48 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 4765 TO ITERATE

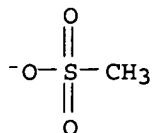
100.0% PROCESSED 4765 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L14 0 SEA SSS FUL L12

CRN 16053-58-0  
CMF C H3 O3 S



L11 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

GI For diagram(s), see printed CA Issue.

AB 4,5-Dichloronaphthalic anhydride (I) [7267-14-3] is condensed with RNH<sub>2</sub> and the products treated with 2 moles HOCH<sub>2</sub>CH<sub>2</sub>NR<sub>12</sub> to give II [R = Me, Pr, CH<sub>2</sub>CH<sub>2</sub>EtBu, (CH<sub>2</sub>)<sub>3</sub>NMe<sub>2</sub>; R<sub>1</sub> = Me, Et, or NR<sub>12</sub> = morpholino], which are quaternized to give fluorescent whitening agents. Thus, I was condensed with MeNH<sub>2</sub> [74-89-5], and the product [25507-27-1] (5 parts) was heated 2 hr at 95° with 18 parts Me<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>OH [108-01-0] containing 0.9 part Na to give II (R = R<sub>1</sub> = Me) [36873-82-2], which was quaternized with 2 moles Me<sub>2</sub>SO<sub>4</sub> to give a fluorescent whitening agent [36900-83-1] for acrylic fibers. Similarly, 4 other II and 9 other cationic derivs. of the II were prepared and the latter used as fluorescent whitening agents for acrylic and polyester fibers and polyacrylonitrile-wool blends.

AN 1975:516986 CAPLUS

DN 83:116986

TI Naphthalimide derivative

IN Noguchi, Tamehiko; Matsunaga, Daisaku

PA Nippon Kayaku Co., Ltd., Japan

SO Jpn. Tokkyo Koho, 9 pp.

CODEN: JAXXAD

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---------------|------|----------|-----------------|----------|
| PI   | JP 49043688   | B4   | 19741122 | JP 1972-63433   | 19720624 |
| PRAI | JP 1972-63433 |      | 19720624 |                 |          |
| IT   | 36900-83-1    |      |          |                 |          |

RL: USES (Uses)

(fluorescent brightener, for acrylic fibers)

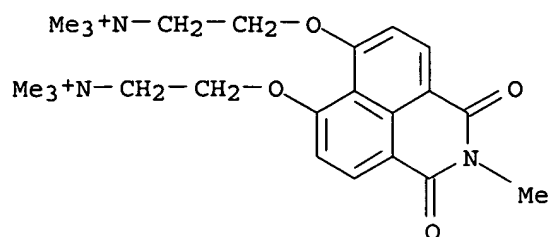
RN 36900-83-1 CAPLUS

CN Ethanaminium, 2,2'-[(2,3-dihydro-2-methyl-1,3-dioxo-1H-benz[de]isoquinoline-6,7-diyl)bis(oxy)]bis[N,N,N-trimethyl-, bis(methyl sulfate) (9CI) (CA INDEX NAME)

CM 1

CRN 47645-11-4

CMF C23 H33 N3 O4



CM 2

CRN 21228-90-0

CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

L11 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
 AB Fluorescent whiteners (I, R, R1, R2 = alkyl; R3 = H, alkyl; X = anion; n = 2,3) were prepared by treating the corresponding dialkylamino compound with a quaternizing agent or an acid and were used to whiten acrylic fibers. For example, fluorescent whitener I (R = R1 = R2 = R3 = Me, X = MeSO<sub>4</sub>, n = 2) [51989-81-2] was prepared and gave a lightfast whiteness to acrylic fibers.

AN 1974:451148 CAPLUS

DN 81:51148

TI Fluorescent whiteners

IN Imahori, Seiichi; Hiraki, Susumu

PA Mitsubishi Chemical Industries Co., Ltd.

SO Jpn. Tokkyo Koho, 5 pp.

CODEN: JAXXAD

DT Patent

LA Japanese

FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 48038211    | B4   | 19731116 | JP 1970-107726  | 19701205 |
| PRAI | JP 1970-107726 |      | 19701205 |                 |          |
| IT   | 51989-81-2P    |      |          |                 |          |

RL: IMF (Industrial manufacture); PREP (Preparation)  
 (preparation of)

RN 51989-81-2 CAPLUS

CN Ethanaminium, 2-[(2,3-dihydro-7-methoxy-2-methyl-1,3-dioxo-1H-benz[de]isoquinolin-6-yl)oxy]-N,N,N-trimethyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 51989-80-1

CMF C19 H23 N2 O4